Fecal Coliform Impact Compliance

REFUSE DISPOSAL DIVISION

Background / Purpose: The Local Enforcement Agency (LEA) and Regional Water Quality Control Board regulate activity at our landfills through enforcement of the Clean Water Act. The purpose of this EMP is to develop Best Management Practices (BMPs) and background data to more effectively manage potential fecal coliform impacts.

Objective: Understand fecal coliform impacts in relation to the Greenery operations and the environment.

Related Significant Aspects: Fecal coliform, Storm-water Runoff

Target: TBD based on source of fecal coliform and impact mitigation options.

Target Completion Date(s): July 1, 2006.

Action Plan: Develop and follow BMPs to mitigate fecal coliform impacts and minimize on-site storm water impacts by determining fecal coliform source locations and environmental impact.

Responsible Person(s): Greenery Supervisor, Greenery staff, Biologist III, Project Officer II, EMR.

Resources Required: Staff, lab, consulting firm

Environmental Performance Indicator(s): Control of fecal coliform counts within compost samples and reduction of elevated coliform counts in storm-water runoff above baseline.

Comments (including other expected benefits or cost savings): Minimize or eliminate potential for fines from the regulator (Regional Water Quality Control Board –San Diego or L.E.A.)

Baseline Data: TBD

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Reviewed by: John Howard, Biologist III
Michael Thompson, Project Officer II
Dana Armstrong, Disposal Site Supervisor (Greenery)

Approved by: Steven F. Fontana**,** Deputy Environmental Services Director

EMP Schedule					
Step	**Action Items**	**Responsibilities**	**Role**	**Schedule**	**Resources Required**
1	Develop consultant scope of work and Request for Proposal (RFP).	M. Thompson J. Howard J. Newman	Lead Support Support	July 05 TBD	Pending due to other BMP implementation
2	Select potential consultants and issue RFP.	M. Thompson J. Howard J. Newman	Lead Support Support	Aug 05 TBD	Pending
3	Select and negotiate agreement with consultant.	M. Thompson J. Howard J. Newman	Lead Support Support	Sep 05 TBD	Budget
4	Assist consultant in a study to quantify and evaluate coliform bacteria in the greens area.	J. Howard M. Thompson D. Armstrong	Lead Support Support	Oct 05 TBD	
5	Develop and implement operational BMPs for compost and green's handling.	D. Armstrong M. Thompson J. Howard	Lead Support Support	TBD based on item #4	
6	Develop and implement structural BMPs, if warranted and feasible based on site conditions, to mitigate coliform bacteria in green's storm water runoff	M. Thompson D. Armstrong J. Howard	Lead Support Support	TBD based on item #4	

Comments (report performance/milestones):

This is a continuation of the FY04 environmental management program designed to identify and mitigate bacteria risks to the environment and within the Greenery operation at the Miramar Landfill.

Preliminary development of a scope of work for the consultant has been completed and is pending the results of the following reviews:

A meeting with AbTech regarding a polymer that is inserted into the invert of pipes to "explode" the cell walls of bacteria is scheduled for September 2005. This has potential as a BMP for stormwater pollution prevention should the technology prove viable.

We are currently evaluating the possible use of Quat (Quaternary Ammonium) for land application as a bactericide to control fecal coliform in an open area such as the Greenery. The idea is to spray the Greens op area prior to a storm event in hopes that this will retard or eliminate the fecal coliform bloom customarily seen right after a storm event. Material handling, application and regulatory issues will be addressed prior to initiating this program.